



# SEQUENCE LISTING

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<120> Somatostatins and Methods

<130> 255.00040101

<140> US 09/727,739

<141> 2000-12-01

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<151> 1999-12-03

<160> 52

<170> PatentIn version 3.0

<210> 1

<211> 14

<212> PRT

<213> Homo sapiens

<400> 1

Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys  
1 5 10

<210> 2

<211> 14

<212> PRT

<213> Oncorhynchus mykiss

<400> 2

Ala Gly Cys Lys Asn Phe Tyr Trp Lys Gly Phe Thr Ser Cys  
1 5 10

<210> 3

<211> 114

<212> PRT

<213> Oncorhynchus mykiss

<400> 3

Met Leu Ser Thr Arg Val Gln Cys Ala Leu Ala Leu Leu Ser Leu Ala  
1 5 10 15

Leu Ala Ile Ser Ser Val Ser Ala Ala Pro Ser Asp Ala Lys Leu Arg  
20 25 30

Gln Leu Leu Gln Arg Ser Leu Met Ala Pro Ala Gly Lys Gln Glu Leu  
35 40 45

Ala Arg Asn Thr Leu Val Glu Leu Leu Ser Glu Leu Ala His Val Glu  
50 55 60

Asn Glu Ala Ile Glu Leu Asp Asp Met Ser His Gly Val Glu Gln Glu  
65 70 75 80

Asp Val Asp Leu Glu Leu Glu Arg Ala Pro Gly Pro Val Leu Ala Pro  
85 90 95

Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr  
100 105 110

Ser Cys

<210> 4

<211> 26

<212> PRT

<213> Oncorhynchus mykiss

<400> 4

Ala Pro Gly Pro Val Leu Ala Pro Arg Glu Arg Lys Ala Gly Cys Lys  
1 5 10 15

Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys  
20 25

<210> 5

<211> 88

<212> PRT

<213> Oncorhynchus mykiss

<400> 5

Met Leu Ser Thr Arg Val Gln Cys Ala Leu Ala Leu Leu Ser Leu Ala  
1 5 10 15

Leu Ala Ile Ser Ser Val Ser Ala Ala Pro Ser Asp Ala Lys Leu Arg  
20 25 30

Gln Leu Leu Gln Arg Ser Leu Met Ala Pro Ala Gly Lys Gln Glu Leu  
35 40 45

Ala Arg Asn Thr Leu Val Glu Leu Leu Ser Glu Leu Ala His Val Glu  
50 55 60

Asn Glu Ala Ile Glu Leu Asp Asp Met Ser His Gly Val Glu Gln Glu  
65 70 75 80

Asp Val Asp Leu Glu Leu Glu Arg  
85

<210> 6

<211> 12

<212> PRT

<213> Oncorhynchus mykiss

<400> 6

Ala Pro Gly Pro Val Leu Ala Pro Arg Glu Arg Lys  
1 5 10

<210> 7

<211> 24

<212> PRT

<213> Oncorhynchus mykiss

<400> 7

Met Leu Ser Thr Arg Val Gln Cys Ala Leu Ala Leu Leu Ser Leu Ala  
1 5 10 15

Leu Ala Ile Ser Ser Val Ser Ala  
20

<210> 8

<211> 763

<212> DNA

<213> Oncorhynchus mykiss

<400> 8

ggggggggg gaacaggagc agcagaactc aaagagaagc caatctcaac gattgtctgc  
60

ccaattgaac cacctttatc catcctctgc ctccccgag acccagaaga agatgctctc  
120

gacgcgtgtc cagtgcgcc tagcactact ctccctagcc ctggccatca gcagcgtctc  
180

tgccgctccg tccgatgcc aactccgcc gctgctccaa cggtcactca tggcacctgc  
240

aggcaaacag gagcttgcca ggaatacact cgtagagcta ctctcagagc tcgcacatgt  
300

agagaacgag gcgattgaat tggatgacat gtctcatggc gtggagcagg aggatgtgga  
360

tctcgagctg gagcgtgcac ccggcccagt actggctcca cgtgaacgca aggctggatg  
420

caagaacttc ttctggaaga cctttacatc gtgttaatga atctactcct ttactgtgtg  
480

tactacatct catctctttt gtttcaatca ctcatgtctg aatccaatgc accatggcct  
540

aaccctcctc ttcaaaaaat ttaaataaac actggtataa cttaacaat cattctgatg  
600

tttctatcgc tcacttagat ttttttccga aaaggaacac aagaagaat gttctacaaa  
660

tgtatgcggt tctgctttga ctgtgattta tgtattttgg cagactattt ttaattgttt  
720

gtttgaataa aatctgtggt tcagaaccaa aaaaaaaaaa aaa  
763

<210> 9

<211> 115

<212> PRT

<213> Oncorhynchus mykiss

<400> 9

Met Lys Val Cys Arg Ile His Cys Ala Leu Ala Leu Leu Gly Leu Ala  
1 5 10 15

Leu Ala Ile Cys Ser Gln Gly Ala Ala Ser Gln Pro Asp Leu Asp Leu  
20 25 30

Arg Ser Arg Arg Leu Leu Gln Arg Ala Arg Ala Ala Ala Leu Pro His  
35 40 45

Arg Ser Gly Val Ser Glu Arg Trp Arg Thr Phe Tyr Pro Asn Cys Pro  
50 55 60

Cys Leu Arg Pro Arg Lys Val Lys Cys Pro Ala Gly Ala Lys Glu Asp  
65 70 75 80

Leu Arg Val Glu Leu Glu Arg Ser Val Gly Asn Pro Asn Asn Leu Pro  
85 90 95

Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Tyr Trp Lys Gly Phe  
100 105 110

Thr Ser Cys  
115

<210> 10

<211> 28

<212> PRT

<213> Oncorhynchus mykiss

<400> 10

Ser Val Gly Asn Pro Asn Asn Leu Pro Pro Arg Glu Arg Lys Ala Gly  
1 5 10 15

Cys Lys Asn Phe Tyr Trp Lys Gly Phe Thr Ser Cys  
20 25

<210> 11

<211> 87

<212> PRT

<213> Oncorhynchus mykiss

<400> 11

Met Lys Val Cys Arg Ile His Cys Ala Leu Ala Leu Leu Gly Leu Ala  
1 5 10 15

Leu Ala Ile Cys Ser Gln Gly Ala Ala Ser Gln Pro Asp Leu Asp Leu  
20 25 30

Arg Ser Arg Arg Leu Leu Gln Arg Ala Arg Ala Ala Ala Leu Pro His  
35 40 45

Arg Ser Gly Val Ser Glu Arg Trp Arg Thr Phe Tyr Pro Asn Cys Pro  
50 55 60

Cys Leu Arg Pro Arg Lys Val Lys Cys Pro Ala Gly Ala Lys Glu Asp  
65 70 75 80

Leu Arg Val Glu Leu Glu Arg  
85

<210> 12

<211> 14

<212> PRT

<213> Oncorhynchus mykiss

<400> 12

Ser Val Gly Asn Pro Asn Asn Leu Pro Pro Arg Glu Arg Lys  
1 5 10

<210> 13

<211> 25

<212> PRT

<213> Oncorhynchus mykiss

<400> 13

Met Lys Val Cys Arg Ile His Cys Ala Leu Ala Leu Leu Gly Leu Ala  
1 5 10 15

Leu Ala Ile Cys Ser Gln Gly Ala Ala  
20 25

<210> 14

<211> 623

<212> DNA



<213> Oncorhynchus mykiss

<400> 14

accaggcctg ctccataccg actgatccag atcgagcata gcccggtcca gctcagctcg  
60

tctcaccgcg tgccatccct gcaaacaaaa cccagctctg ttggagatga aggtctgccg  
120

aatccactgt gccctggccc tgctggggtt ggccctggcc atttgcagcc aaggagccgc  
180

ctcgcagccc gacctggacc tccgcagccg cagactcctt cagagggctc gtgccgctgc  
240

attgccacac aggagtggag taagcgagcg gtggaggaca ttctatccca actgtccttg  
300

cctgaggccc aggaaagtga agtgtcaagc gggggctaaa gaggacctgc gtgtggagct  
360

ggagcgctca gtgggcaacc ccaacaacct tccccccgt gagcgcaaag ccggctgcaa  
420

gaacttctac tggaagggtc tcacttcctg ctgagggaag aataaaccga ccaccttatg  
480

acatgacgct gccaatcacg tcacaccgcc aacttacacc tgacgaatgc agccaatcaa  
540

cagttagctg tgcccgatga tggttcttga aatcaacaga atgatgtacc tgtctaattt  
600

gtgaaataaa tataaaataa ttg  
623

<210> 15

<211> 111

<212> PRT

<213> Oncorhynchus mykiss

<400> 15

Met Arg Val Ser Gln Ile His Cys Ala Leu Ala Leu Leu Gly Leu Ala  
1 5 10 15

Leu Ala Ile Cys Ser Gln Gly Ala Ala Ser Gln Pro Asp Leu Asp Leu  
20 25 30

Ala Ser Arg Arg Leu Leu Gln Arg Ala Leu Ala Ala Ala Leu Pro His  
35 40 45

Arg Ser Gly Val Ser Glu Arg Trp Arg Thr Phe Tyr Pro Asn Cys Pro  
50 55 60

Cys Leu Arg Trp Arg Pro Arg Lys Val Lys Gly Pro Gln Leu Lys Ala  
65 70 75 80

Lys Glu Asp Leu Glu Arg Ser Val Asp Asn Leu Pro Pro Arg Glu Arg  
85 90 95

Lys Ala Gly Cys Lys Asn Phe Tyr Trp Lys Gly Phe Thr Ser Cys  
100 105 110

<210> 16

<211> 25

<212> PRT

<213> Oncorhynchus mykiss

<400> 16

Ser Val Asp Asn Leu Pro Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn  
1 5 10 15

Phe Tyr Trp Lys Gly Phe Thr Ser Cys  
20 25

10

<210> 17

<211> 86

<212> PRT

<213> Oncorhynchus mykiss

<400> 17

Met Arg Val Ser Gln Ile His Cys Ala Leu Ala Leu Leu Gly Leu Ala  
1 5 10 15

Leu Ala Ile Cys Ser Gln Gly Ala Ala Ser Gln Pro Asp Leu Asp Leu  
20 25 30

Ala Ser Arg Arg Leu Leu Gln Arg Ala Leu Ala Ala Leu Pro His  
35 40 45

Arg Ser Gly Val Ser Glu Arg Trp Arg Thr Phe Tyr Pro Asn Cys Pro  
50 55 60

Cys Leu Arg Trp Arg Pro Arg Lys Val Lys Gly Pro Gln Leu Lys Ala  
65 70 75 80

Lys Glu Asp Leu Glu Arg  
85

<210> 18

<211> 11

<212> PRT

<213> Oncorhynchus mykiss

<400> 18

Ser Val Asp Asn Leu Pro Pro Arg Glu Arg Lys  
1 5 10

<210> 19

<211> 25

<212> PRT

<213> Oncorhynchus mykiss

<400> 19

Met Arg Val Ser Gln Ile His Cys Ala Leu Ala Leu Leu Gly Leu Ala  
1 5 10 15

Leu Ala Ile Cys Ser Gln Gly Ala Ala  
20 25

<210> 20

<211> 600

<212> DNA

<213> Oncorhynchus mykiss

<400> 20

accaggcctg ctccatatca actgatctag atccagcaca ccccggtcca gcttagctca  
60

ccgtgtctgg tccctgcaaa cccaactcag ctctgttgga gatgaggggc tcccaaattcc  
120

actgtgcact ggccctgctg ggtctggccc tggcaatttg cagccaagga gccgcctcgc  
180

agccagacct ggacctcgcg agccgccgac tcctccagag ggccctggcc gctgcattgc  
240

cacacaggag tggagtaagc gagcgatgga ggacattcta tccgaactgt ccttgcctga  
300

ggtggaggcc cagaaaagtg aagggtccac agctgaaggc caaagaggac ctggagcgct  
360

cagtggacaa ccttcccccc cgcgagcgca aagctggctg caagaacttc tactggaagg  
420

gattcacttc ttgctaaggg aagaaaagcc tgaccacctt atgacacaat gcattcaatc  
480

acatcacacc gccaaccttc atctgactaa tgtagccaat cagcaattag ctgtgcctga  
540

tgacaattat gattatgatg tacctgacta atttagaaat aaagagaaat aaagagaaac  
600

<210> 21

<211> 28

<212> PRT

<213> Homo sapiens

<400> 21

Ser	Ala	Asn	Ser	Asn	Pro	Ala	Met	Ala	Pro	Arg	Glu	Arg	Lys	Ala	Gly
1				5					10					15	

Cys	Lys	Asn	Phe	Phe	Trp	Lys	Thr	Phe	Thr	Ser	Cys
			20					25			

<210> 22

<211> 37

<212> DNA

<213> Artificial

<220>

<223> Primer

<400> 22

ggccacgcgt cgactagtac tttttttttt tttttt  
37

<210> 23

<211> 32

<212> DNA

<213> Artificial

<220>

<223> Primer

<400> 23

cuacuacuac uaggccacgc gtcgactagt ac  
32

<210> 24

<211> 48

<212> DNA

<213> Artificial

<220>

<223> Primer

<220>

<221> modified\_base

<222> (36)..(37)

<223> i

<220>

<221> modified\_base

<222> (41)..(42)

<223> i

<220>

<221> modified\_base

<222> (46)..(47)

<223> i

<400> 24

cuacuacuac uaggccacgc gtcgactagt acgggnnggg nngggngg  
48

<210> 25

<211> 20

<212> DNA

<213> Artificial

<220>

<223> Primer

<400> 25  
aagaacttct tctggaagac  
20

<210> 26

<211> 20

<212> DNA

<213> Artificial

<220>

<223> Primer

<400> 26  
attcattaac acgatgtaaa  
20

<210> 27

<211> 33

<212> PRT

<213> Myxine glutinosa

<400> 27

Ala Val Glu Arg Pro Arg Gln Asp Gly Gln Val His Glu Pro Pro Gly  
1 5 10 15

Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr  
20 25 30

Ser



<210> 28

<211> 14

<212> PRT

<213> Hydrolagus collei

<400> 28

Ala Gly Cys Lys Ser Phe Phe Trp Lys Thr Phe Thr Ser Cys  
1 5 10

<210> 29

<211> 26

<212> PRT

<213> Amia calva

<400> 29

Ser Ala Asn Pro Ala Leu Ala Pro Arg Glu Arg Lys Ala Gly Cys Lys  
1 5 10 15

Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys  
20 25

<210> 30

<211> 14

<212> PRT

<213> Acipenser gueldenstaedti

<400> 30

Ala Pro Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys  
1 5 10

<210> 31

<211> 28

<212> PRT

<213> *Lophius americanus*

<400> 31

Ala Ala Ser Gly Gly Pro Leu Leu Ala Pro Arg Glu Arg Lys Ala Gly  
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys  
20 25

<210> 32

<211> 28

<212> PRT

<213> *Sus scrofa*

<400> 32

Ser Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly  
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys  
20 25

<210> 33

<211> 21

<212> DNA

<213> Artificial

<220>

<223> Primer

<400> 33

ggctgcaaga atttcttctc g  
21

<210> 34

<211> 21

<212> DNA

<213> Artificial

<220>

<223> Primer

<400> 34

gttggcgggtg tgacgtgatt g  
21

<210> 35

<211> 0

<212> DNA

<213> Skipped sequence

<400> 35

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<210> 36

<211> 105

<212> PRT

<213> *Ictalurus punctatus*

<400> 36

Met Ser Ser Ser Pro Leu Arg Leu Ala Leu Ala Leu Met Cys Leu Val  
1 5 10 15

Ser Ala Val Gly Val Ile Ser Cys Gly Arg Pro His Val Val Leu Asn  
20 25 30

Ser Ala Leu Glu Glu Ala Arg Asn Val Pro Phe Gly Glu Glu Val Pro  
35 40 45

Glu Arg Leu Thr Leu Pro Glu Leu Gln Trp Met Leu Ser Asn Asn Glu  
50 55 60

Leu Thr Pro Val Gln Val Glu Glu Ala Pro Arg Ser Arg Leu Glu Leu  
65 70 75 80

Val Arg Arg Asp Asn Thr Val Thr Ser Lys Pro Leu Asn Cys Met Asn  
85 90 95

Tyr Phe Trp Lys Ser Arg Thr Ala Cys  
100 105

<210> 37

<211> 125

<212> PRT

<213> *Lophius americanus*

<400> 37

Met Gln Cys Ile Arg Cys Pro Ala Ile Leu Ala Leu Leu Ala Leu Val  
1 5 10 15

Leu Cys Gly Pro Ser Val Ser Ser Gln Leu Asp Arg Glu Gln Ser Asp  
20 25 30

Asn Gln Asp Leu Asp Leu Glu Leu Arg Gln His Trp Leu Leu Glu Arg  
35 40 45

Ala Arg Ser Ala Gly Leu Leu Ser Gln Glu Trp Ser Lys Arg Ala Val  
50 55 60

Glu Glu Leu Leu Ala Gln Met Ser Leu Pro Glu Ala Thr Phe Gln Arg  
65 70 75 80

Glu Ala Glu Asp Ala Ser Met Ala Thr Glu Gly Arg Met Asn Leu Glu  
85 90 95

Arg Ser Val Asp Ser Thr Asn Asn Leu Pro Pro Arg Glu Arg Lys Ala  
100 105 110

Gly Cys Lys Asn Phe Tyr Trp Lys Gly Phe Thr Ser Cys  
115 120 125

<210> 38

<211> 120

<212> PRT

<213> Carasius auratus

<400> 38

Met Arg Leu Cys Glu Leu His Cys Tyr Leu Ala Leu Leu Gly Leu Ser  
1 5 10 15

Leu Val Leu Cys Gly Arg Cys Ala Asn Ser Gln Leu Glu Pro Asp Leu  
20 25 30

Asp Phe Arg His His Arg Leu Leu Gln Arg Ala Ser Ala Thr Gly Gln  
35 40 45

Ala Thr Gln Asp Phe Thr Lys Arg Asp Val Glu Lys Leu Leu Ser Leu  
50 55 60

Leu Ser Ile Pro Glu Met Glu Met Arg Glu Lys Gly Leu Ser Met Ala  
65 70 75 80

Gly Glu Ser Glu Asp Leu Arg Leu Glu Gln Glu Arg Ser Ala Glu Ser  
85 90 95

Ser Asn Gln Leu Pro Thr Arg Val Arg Lys Glu Gly Cys Lys Asn Phe  
100 105 110

Tyr Trp Lys Gly Phe Thr Ser Cys  
115 120

<210> 39

<211> 111

<212> PRT

<213> Carasius auratus

<400> 39

Met Gln Leu Leu Ser Ser Leu Val Ser Leu Leu Leu Val Leu Tyr Ser  
1 5 10 15

Val Arg Ala Ala Ala Val Leu Pro Val Glu Glu Arg Asn Pro Ala Gln  
20 25 30

Ser Arg Glu Leu Ser Lys Glu Arg Lys Glu Leu Ile Leu Lys Leu Ile  
35 40 45

Ser Gly Leu Leu Asp Gly Val Asp Asn Ser Val Leu Asp Gly Glu Ile  
50 55 60

Ala Pro Val Pro Phe Asp Ala Glu Glu Pro Leu Glu Ser Arg Leu Glu  
65 70 75 80

Glu Arg Ala Val Tyr Asn Arg Leu Ser Gln Leu Pro Gln Arg Asp Arg  
85 90 95

Lys Ala Pro Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys  
 100 105 110

<210> 40

<211> 103

<212> PRT

<213> Rana ridibunda

<400> 40

Met Leu Gly Ser Ala Gly Thr Leu Leu Leu Leu Leu Ala Trp Gly  
 1 5 10 15

Ala Arg Ala Leu Ser Gln Pro Asp Asp Asn Arg Ile Thr Thr Gly Arg  
 20 25 30

Asn Gln Asp Leu Asn Ala Ile Gln Gln Asp Leu Leu Leu Lys Leu Leu  
 35 40 45

Ser Gly Trp Thr Asp Ser Arg Glu Ser Asn Leu Val Glu Val Glu Arg  
 50 55 60

Asn Val Pro Asp Pro Pro Glu Pro Lys Ile Pro Pro Ser Val Lys Phe  
 65 70 75 80

Pro Arg Leu Ser Leu Arg Glu Arg Lys Ala Pro Cys Lys Asn Phe Phe  
 85 90 95

Trp Lys Thr Phe Thr Met Cys  
 100

<210> 41

<211> 114

<212> PRT

<213> Ictalurus punctatus

<400> 41

Met Pro Ser Thr Arg Ile Gln Cys Ala Leu Ala Leu Leu Ala Val Ala  
1 5 10 15

Leu Ser Val Cys Ser Val Ser Gly Ala Pro Ser Asp Ala Lys Leu Arg  
20 25 30

Gln Phe Leu Gln Arg Ser Ile Leu Ala Pro Ser Val Lys Gln Glu Leu  
35 40 45

Thr Arg Tyr Thr Leu Ala Glu Leu Leu Ala Glu Leu Ala Glu Ala Glu  
50 55 60

Asn Glu Val Leu Asp Ser Asp Glu Val Ser Arg Ala Ala Glu Ser Glu  
65 70 75 80

Gly Ala Arg Leu Glu Met Glu Arg Ala Ala Gly Pro Met Leu Ala Pro  
85 90 95

Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr  
100 105 110

Ser Cys

<210> 42

<211> 121

<212> PRT

<213> Lophius americanus

<400> 42

Met Lys Met Val Ser Ser Ser Arg Leu Arg Cys Leu Leu Val Leu Leu  
1 5 10 15

Leu Ser Leu Thr Ala Ser Ile Ser Cys Ser Phe Ala Gly Gln Arg Asp  
20 25 30



Ser Lys Leu Arg Leu Leu Leu His Arg Tyr Pro Leu Gln Gly Ser Lys  
35 40 45

Gln Asp Met Thr Arg Ser Ala Leu Ala Glu Leu Leu Leu Ser Asp Leu  
50 55 60

Leu Gln Gly Glu Asn Glu Ala Leu Glu Glu Glu Asn Phe Pro Leu Ala  
65 70 75 80

Glu Gly Gly Pro Glu Asp Ala His Ala Asp Leu Glu Arg Ala Ala Ser  
85 90 95

Gly Gly Pro Leu Leu Ala Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn  
100 105 110

Phe Phe Trp Lys Thr Phe Thr Ser Cys  
115 120

<210> 43

<211> 114

<212> PRT

<213> Carasius auratus

<400> 43

Met Leu Ser Thr Arg Ile Gln Cys Ala Leu Ala Leu Leu Ser Leu Ala  
1 5 10 15

Leu Ala Val Cys Ser Val Ser Ala Ala Pro Thr Asp Ala Lys Leu Arg  
20 25 30

Gln Leu Leu Gln Arg Ser Leu Leu Asn Pro Ala Gly Lys Gln Glu Leu  
35 40 45

Ala Arg Tyr Thr Leu Ala Asp Leu Leu Ser Glu Leu Val Gln Ala Glu  
50 55 60

Asn Glu Ala Leu Glu Pro Glu Asp Leu Ser Arg Ala Val Glu Lys Asp  
65 70 75 80

Glu Val Arg Leu Glu Leu Glu Arg Ala Ala Gly Pro Met Leu Ala Pro  
85 90 95

Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr  
100 105 110

Ser Cys

<210> 44

<211> 115

<212> PRT

<213> Rana ridibunda

<400> 44

Met Gln Ser Cys Arg Val Gln Cys Ala Leu Thr Leu Leu Ser Leu Ala  
1 5 10 15

Leu Ala Ile Asn Ser Ile Ser Ala Ala Pro Thr Asp Pro Arg Leu Arg  
20 25 30

Gln Phe Leu Gln Lys Ser Leu Ala Ser Ala Gly Lys Gln Glu Leu Ala  
35 40 45

Lys Tyr Phe Leu Ala Glu Leu Leu Ser Glu Pro Ser Gln Thr Asp Asn  
50 55 60

Glu Ala Leu Glu Ser Asp Asp Leu Pro Arg Gly Ala Glu Gln Asp Glu  
65 70 75 80

Val Arg Leu Glu Leu Glu Arg Ser Ala Asn Ser Ser Pro Ala Leu Ala  
85 90 95

Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe  
100 105 110

Thr Ser Cys  
115

<210> 45

<211> 116

<212> PRT

<213> Gallus gallus

<400> 45

Met Leu Ser Cys Arg Leu Gln Cys Ala Leu Ala Leu Leu Ser Ile Ala  
1 5 10 15

Leu Ala Val Gly Thr Val Ser Ala Ala Pro Ser Asp Pro Arg Leu Arg  
20 25 30

Gln Phe Leu Gln Lys Ser Leu Ala Ala Ala Ala Gly Lys Gln Glu Leu  
35 40 45

Ala Lys Tyr Phe Leu Ala Glu Leu Leu Ser Glu Pro Ser Gln Thr Glu  
50 55 60

Asn Glu Ala Leu Glu Ser Glu Asp Leu Ser Arg Gly Ala Glu Gln Asp  
65 70 75 80

Glu Val Arg Leu Glu Leu Glu Arg Ser Ala Asn Ser Asn Pro Ala Leu  
85 90 95

Ala Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr  
100 105 110

Phe Thr Ser Cys  
115

<210> 46

<211> 116

<212> PRT

<213> Rattus norvegicus

<400> 46

Met Leu Ser Cys Arg Leu Gln Cys Ala Leu Ala Ala Leu Cys Ile Val  
1 5 10 15

Leu Ala Leu Gly Gly Val Thr Gly Ala Pro Ser Asp Pro Arg Leu Arg  
20 25 30

Gln Phe Leu Gln Lys Ser Leu Ala Ala Ala Thr Gly Lys Gln Glu Leu  
35 40 45

Ala Lys Tyr Phe Leu Ala Glu Leu Leu Ser Glu Pro Asn Gln Thr Glu  
50 55 60

Asn Asp Ala Leu Glu Pro Glu Asp Leu Pro Gln Ala Ala Glu Gln Asp  
65 70 75 80

Glu Met Arg Leu Glu Leu Gln Arg Ser Ala Asn Ser Asn Pro Ala Met  
85 90 95

Ala Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr  
100 105 110

Phe Thr Ser Cys  
115

<210> 47

<211> 116

<212> PRT

<213> Bos taurus

<400> 47

Met Leu Ser Cys Arg Leu Gln Cys Ala Leu Ala Ala Leu Ser Ile Val  
1 5 10 15

Leu Ala Leu Gly Gly Val Thr Gly Ala Pro Ser Asp Pro Arg Leu Arg  
20 25 30

Gln Phe Leu Gln Lys Ser Leu Ala Ala Ala Ala Gly Lys Gln Glu Leu  
35 40 45

Ala Lys Tyr Phe Leu Ala Glu Leu Leu Ser Glu Pro Asn Gln Thr Glu  
50 55 60

Ile Asp Ala Leu Glu Pro Glu Asp Leu Ser Gln Ala Ala Glu Gln Asp  
65 70 75 80

Glu Met Arg Leu Glu Leu Gln Arg Ser Ala Asn Ser Asn Pro Ala Met  
85 90 95

Ala Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr  
100 105 110

Phe Thr Ser Cys  
115

<210> 48

<211> 116

<212> PRT

<213> *Macaca fascicularis*

<400> 48

Met Leu Ser Cys Arg Leu Gln Cys Ala Leu Ala Ala Leu Ser Ile Val  
1 5 10 15

Leu Ala Leu Gly Cys Val Thr Gly Ala Pro Ser Asp Pro Arg Leu Arg  
20 25 30

Gln Phe Leu Gln Lys Ser Leu Ala Ala Ala Ala Gly Lys Gln Glu Leu  
35 40 45

Ala Lys Tyr Phe Leu Ala Glu Leu Leu Ser Glu Pro Asn Gln Thr Glu  
50 55 60

Asn Asp Ala Leu Glu Pro Glu Asp Leu Ser Gln Ala Ala Glu Gln Asp  
65 70 75 80

Glu Met Arg Leu Glu Leu Gln Arg Ser Ala Asn Ser Asn Pro Ala Met  
85 90 95

Ala Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr  
100 105 110

Phe Thr Ser Cys  
115

<210> 49

<211> 116

<212> PRT

<213> Homo sapiens

<400> 49

Met Leu Ser Cys Arg Leu Gln Cys Ala Leu Ala Ala Leu Ser Ile Val  
1 5 10 15

Leu Ala Leu Gly Cys Val Thr Gly Ala Pro Ser Asp Pro Arg Leu Arg  
20 25 30

Gln Phe Leu Gln Lys Ser Leu Ala Ala Ala Ala Gly Lys Gln Glu Leu  
35 40 45

Ala Lys Tyr Phe Leu Ala Glu Leu Leu Ser Glu Pro Asn Gln Thr Glu  
50 55 60

Asn Asp Ala Leu Glu Pro Glu Asp Leu Ser Gln Ala Ala Glu Gln Asp  
65 70 75 80

Glu Met Arg Leu Glu Leu Gln Arg Ser Ala Asn Ser Asn Pro Ala Met  
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Ala Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr  
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Phe Thr Ser Cys  
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30